



INSTALLATION & USER GUIDE

Set-Top Box ADB284ITW



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I PACKAGE CONTENT

Package contains the standard components as shown below:

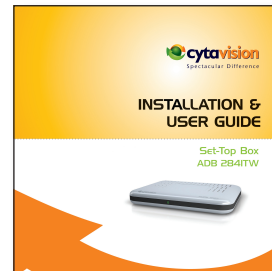
ADB2841TW
Set-Top Box (STB)



Remote Control



User Manual



Power supply and power cord



HDMI cable



Ethernet cable



SCART cable



2 SAFETY NOTES

Read this manual carefully and make sure you understand the instructions provided.

Warning, Caution, and Note Marks

The following marks indicate hazardous situations and therefore special attention should be given to actions where these marks appear throughout the manual.



Warning:

This symbol indicates important instructions accompanying the product.



Caution:

Indicates a situation which, if not avoided, could damage the equipment or other apparatus.



Note:

Indicates the existence of additional information to make the user aware of possible problems that may arise and understand how to properly use and maintain the installation.

2.1 Safety Instructions and Precautions

1. MAINS SUPPLY

Operate the Set-Top Box only with the type of power source indicated on the marking label. Disconnect the product from the mains before you start any maintenance or installation procedures. Power supply provided within the package has the following characteristics:

- Input: 100/240 V AC 50/60 Hz 0,6A max
- Output: 12 V DC, 1.5 A MAX

2. OPERATING CONDITIONS

Use the Set-Top Box under the following environmental conditions:

- Operating Temperature: from 0 °C to 40 °C
- Operating Humidity: up to 80%



Warning:

This Set-Top Box has been manufactured to comply with international safety standards. Please read the following safety precautions carefully.

3. OVERLOADING

Do not overload a wall outlet, extension cord or adapter as this may result in electric shock or fire.

4. LIQUIDS

The Set-Top Box should not be exposed to any liquids such as dripping or splashing. In addition, no objects filled with liquids (e.g. a vase), should be placed on the apparatus.

5. CLEANING

Disconnect the Set-Top Box from the wall outlet before cleaning. Use a light damp cloth (no solvents) to dust it. Periodically clean rubber washers in order to keep firm standing of the Set-Top Box on the surface.

6. VENTILATION

The slots on top of the Set-Top Box must not be covered to allow proper airflow to the unit. Do not place the Set-Top Box on soft furnishings or carpets. Do not stack electronic equipment on top of it.

7. CONNECTION TO THE TV-SET

Connect all components before plugging in the power cord on the wall outlet. Always turn off the Set-Top Box, TV and other components before you connect or disconnect any cables.

8. LOCATION

Place the Set-Top Box indoors to avoid exposing it to unprotected environment.

- Do not place it near a radiator or heat register.
- Make sure it has more than 10 cm clearance from any appliances susceptible to electromagnetic influence, such as a TV or a VCR.
- Do not block the openings on the Set-Top Box with any object, and do not place the product on a bed, sofa, rug, or other similar surface.
- If you place the Set-Top Box on a rack or bookcase, ensure that there is adequate ventilation and that you have followed the correct instructions for mounting.

- Do not place the Set-Top Box on an unstable cart, stand, tripod, bracket or table from where it can fall. A falling product can cause serious injuries and the appliance may be seriously damaged.

9. LIGHTING, STORM or NOT IN USE

Unplug the Set-Top Box from the wall outlet and disconnect the cable during a thunderstorm or when left unattended or unused for long periods of time. This will prevent damage to the unit due to lightning and power-surges.

10. EXTRANEOUS OBJECTS

Do not insert anything through the openings of the unit.

11. REPLACEMENT of PARTS

When replacement parts are required, please refer to Cyta's Call Center. Unauthorized substitution may result in additional damage of the unit.

12. WARNING

- 1.** Do not use the Set-Top Box when it is out of order. To reduce the risk of electric shock, do not remove cover. There are no user serviceable parts inside. Refer to CYTA's Call Center for service.
- 2.** Follow these directions to prevent damage of the power cord or plug.
 - To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside. Refer to qualified personnel of CYTA for service.

- Do not modify or process the power cord or plug arbitrarily.
- Do not bend or twist the power cord.
- Make sure to disconnect the power cord by pulling out the plug.
- Keep heating appliances as far as possible from the power cord in order to prevent the cover from melting.

3. Follow these instructions. Failure to follow one of them may cause electrical shock.

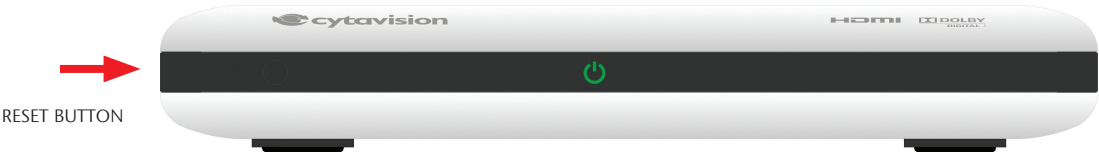
- Do not open the Set-Top Box.
- Do not insert metals or inflammable objects inside the Set-Top Box.
- Do not touch the power plug with wet hands.
- Disconnect the power cord in case of lightning.

4. Please do not insert metal or other substances into the slots. Doing so can cause damage to the product and reduce its life span.

3 ADB 284ITW SET-TOP BOX

3.1 Front Panel

The Set-Top Box front panel:



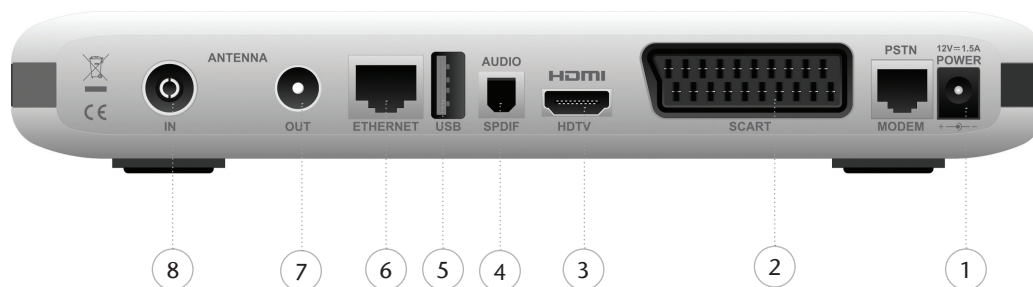
State	Color	LED action
Off (standby mode)	Red	Steady
Boot	Green	Blinks and then Steady
Upgrading SW version	Orange	Blinks
An error has occurred	Red	Blinks for 2 seconds
Remote control key pressed	Orange	Blinks
STB on	Green	Steady

The following button is at the side of the Set-Top Box

RESET BUTTON: Push this button to restart the Set-Top Box.

3.2 Back Panel

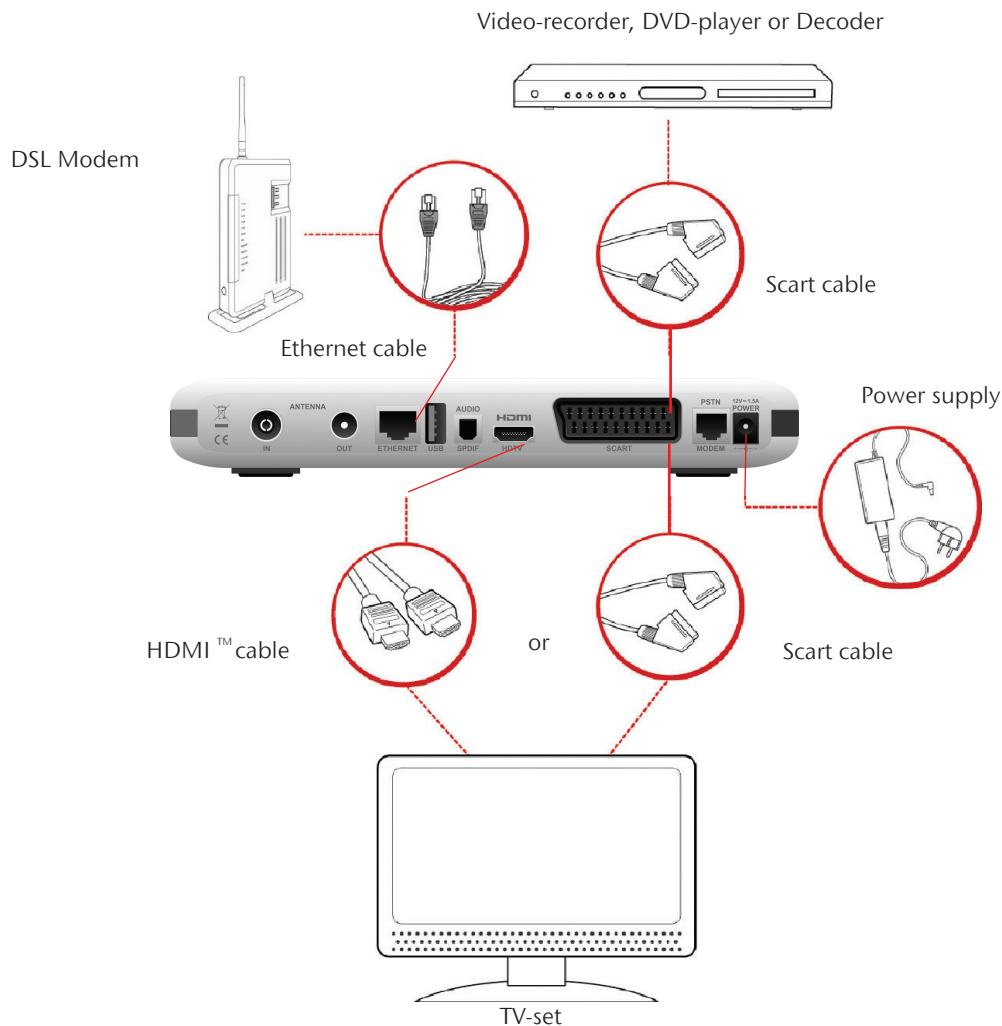
The following figure shows the back panel of the unit:



1. **POWER:** connects to the power supply.
2. **SCART:** connects to TV with SCART cable.
3. **HDMI™:** connects STB to HDTV with HDMI™ cable.
4. **SPDIF:** connects to Hi-Fi System or Home Theatre System with optical output Audio signals.
5. **USB:** ports dedicated to delivery of other services from IPTV (e.g. games).
6. **ETHERNET:** connects STB to ADSL modem with Ethernet cable.
7. **ANTENNA IN:** antenna input (used for Digital TV DVB-T service).
8. **ANTENNA OUT:** antenna output in order to connect TV or VCR with Digital TV DVB-T tuner.

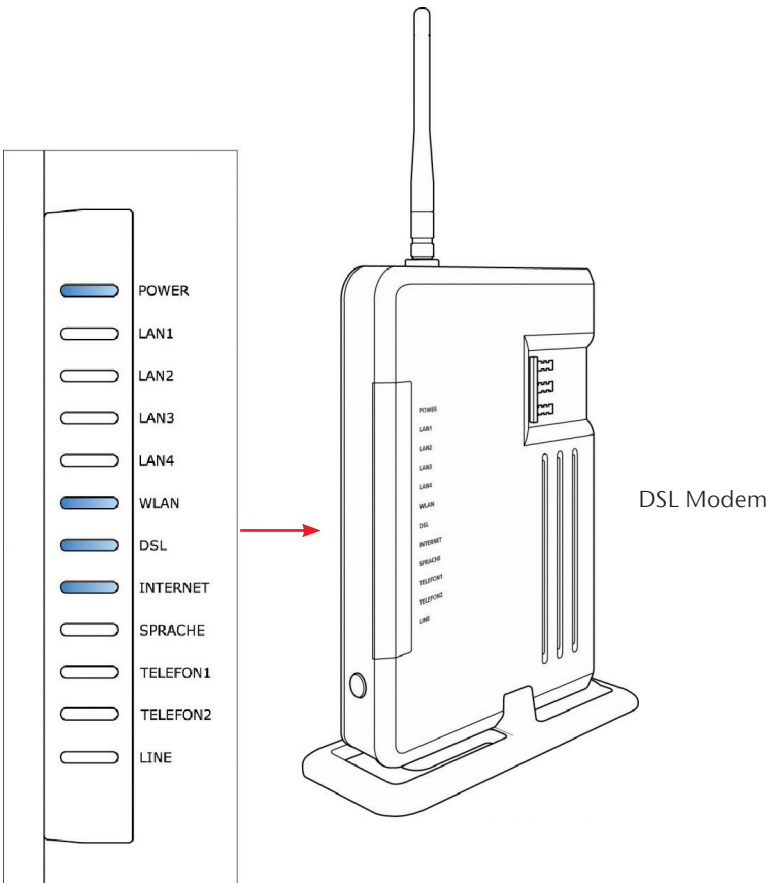
3.3 Installation

For an easy installation, the Set-Top Box has to be connected to the TV and also to the DSL Modem. The Set-Top Box can also be connected to other devices e.g. VCR, DVD player or other Decoder. The picture below shows an example of home network configuration. Many setups are available depending on your requirements.



3.3.1 How to connect the Set-Top Box to the DSL modem

- 1. Switch on the ADSL modem and check the LEDs to ascertain the connection.
- 2. Make sure that the synchronization LED is stable. In the following table you can see all the ADSL modems that Cyta provides to its customers with the equivalent synchronization LED.



DSL MODEM	Sync. LED
THOMSON ST 585 V6	DSL
THOMSON ST 585 V7	BROADBAND
THOMSON ST 780	DSL
ECI B-FOCUS	ADSL SYNC
THOMSON TG 782	BROADBAND

3. Connect the modem to the STB with the Ethernet cable provided:

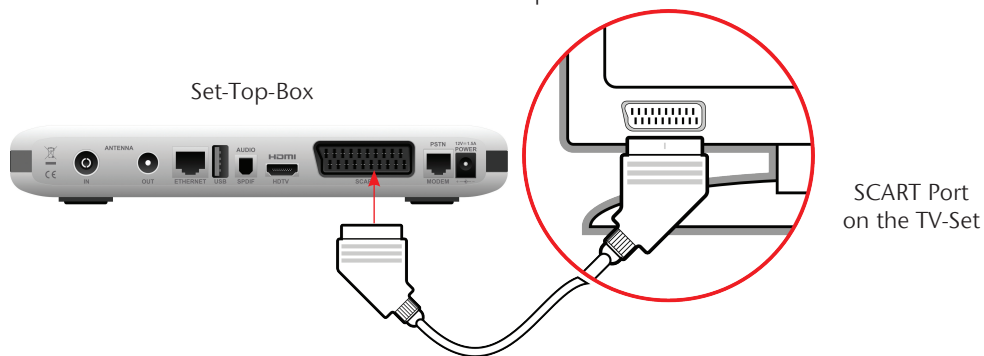
- Insert the Ethernet Connector into an Ethernet port of the ADSL Modem.
- Insert the other end of Ethernet cable into Ethernet port ("ETH MODEM") of the STB.



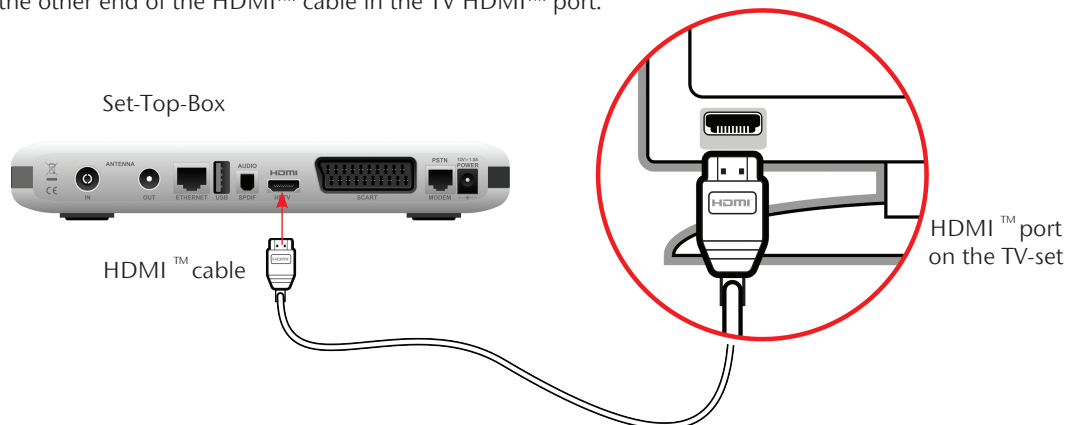
3.3.2 How to connect STB to TV-set

1. Connect the STB to the TV with the SCART cable:

- Insert the SCART Connector in the "SCART" port of the Set-Top-Box.
- Insert the other end of the SCART cable in the SCART port of the TV.

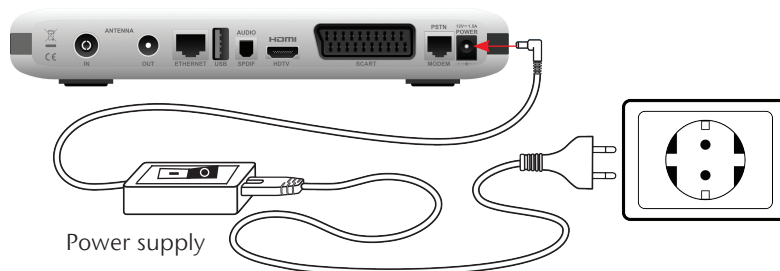


2. Connect the Set-Top-Box to HD-Ready TV with the HDMI™ cable:
- Insert the HDMI™ Connector in the HDMI™ port of the Set-Top Box.
 - Insert the other end of the HDMI™ cable in the TV HDMI™ port.



3.3.3 How to power on the Set-Top Box

Connect the power supply cable of the Set-Top Box to a wall outlet.



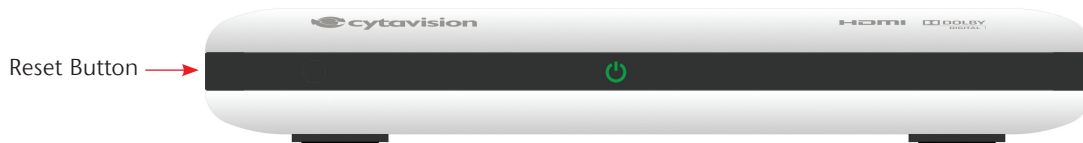
- Press the power button on the power supply unit cable.
- Switch the TV input to the one dedicated to Set-Top Box peripheral (SCART or HDMI).
- In a few minutes, after loading, you will be forwarded to Cytavision's first channel (Preview channel).

3.4 How to reboot the Set-Top Box

In case you need to reboot the STB because it does not respond to any instructions:

Procedure A

- Press the **“Reset”** Button on the side of the STB , for **5 seconds**.



Procedure B

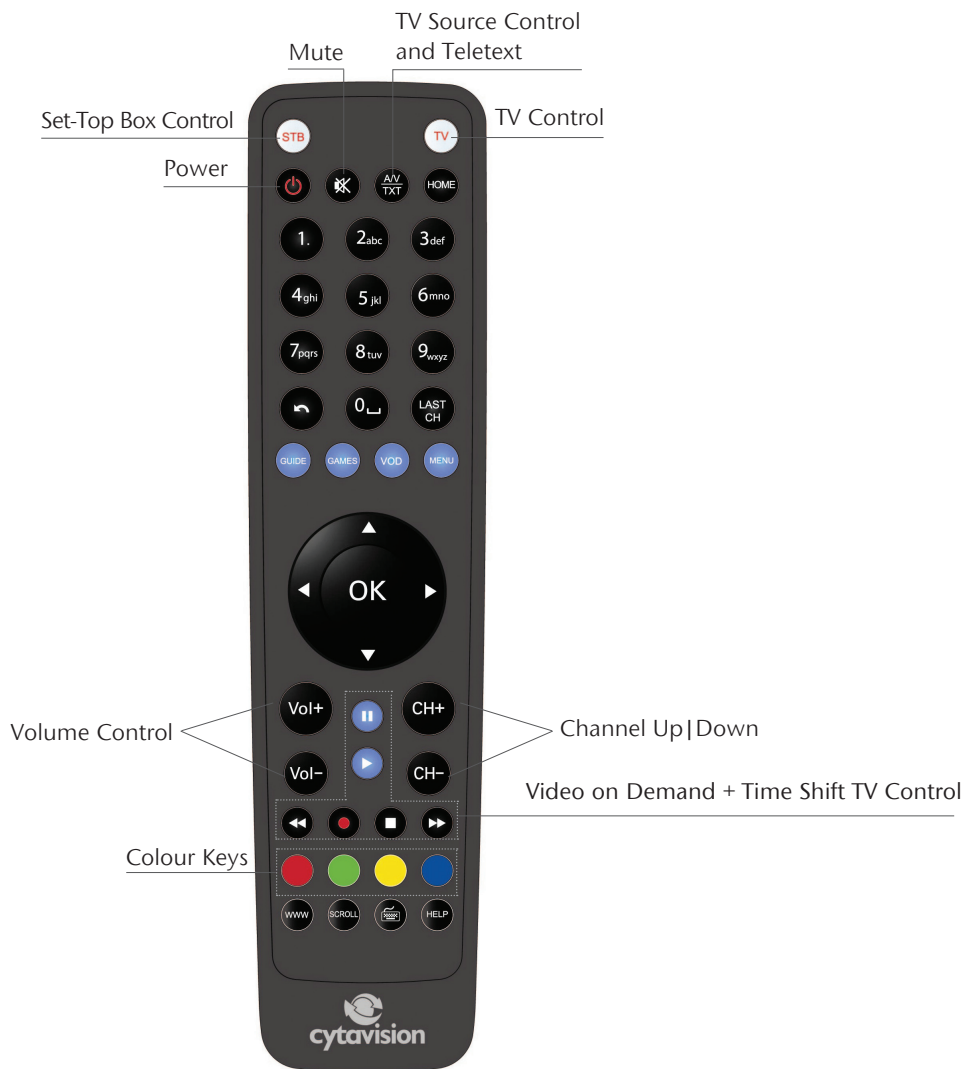
- Disconnect the Set-Top Box from the power adapter. Then wait for 10 seconds before connecting it again to the mains power outlet.



Note:

These procedures do not delete the User Service Configurations.

4 REMOTE CONTROL



Insertion of the batteries

The remote control uses two AAA (LR03) batteries, which are included in the package. Whenever you insert batteries, always make sure both of them are new.

To insert the batteries:

1. On the back of the remote control remove the battery compartment cover by pressing on the catch and pulling the cover down.
2. Insert the batteries, making sure that they are properly oriented with the positive (+) and negative (-) ends as specified on the battery compartment labels.
3. Assemble the battery compartment cover.



CAUTION:

There is a risk of explosion if a battery is damaged or replaced by an incorrect type. Dispose of used batteries properly (see “information for the consumers on batteries end of life” in chapter 6 - Product notes).

Do not disassemble, crush, puncture or incinerate the battery. Only discharged batteries should be disposed of. Do not short-circuit.

4.1 How it works

This Remote control is designed to control both the Set Top Box and the TV and therefore works in two modes:

- Set-Top Box (STB): STB key pressed and blinks upon a key entry when in this mode
- TV mode: TV key pressed and blinks upon a key entry when in this mode

To navigate through the Cytavision menus the STB mode must be selected (see separate Service User Guide).

When in TV mode this Remote Control can manage the following TV functions:

- Power ON/OFF
- Number keys (0- 9)
- Program (up/down)
- Volume (up/down)
- Mute
- AV key
- OK and arrow keys
- Special function keys (red, green, yellow, blue)

4.2 Programming procedures for Remote Control to control the TV set

There are programming procedures that make it possible to control the TV set with the STB remote control as described in the following sections 4.2.1 and 4.2.2.



The programmed code is retained during batteries change.

4.2.1 Manual Brand search

In order to manually introduce the TV code, you must follow these steps:

1. To begin the procedure your TV must be switched on.
2. Press and hold the digits “1” and “3” simultaneously for a minimum of 3 seconds.
3. After 3 seconds, the TV LED on the remote control will turn on. Release the keys.
4. Now enter the 4-digit code for the appropriate TV brand (please refer to APPENDIX A). When a digit is pressed, the TV LED gives a short inverse blink and after the fourth digit is entered, the remote checks if the 4-digit code is valid.
5. If correct, the TV LED will do a confirmation blink and remain switched on. If the code is not valid, the remote control will execute an error-blink and return to normal operation mode.
6. Then hold the Power or Mute key; after 2 seconds, the TV LED will blink during transmission of the code. If the TV is turned off or goes mute depending on which button was pressed for 2 seconds, it means that the right code was transmitted.
7. When the right code is transmitted, release the Power or Mute button and normally the TV will be turned off or go mute respectively to indicate that the correct code was transmitted.
8. Press HOME and STOP key simultaneously to save your set up after getting the correct codes.

4.2.2 Auto Search

If you are not able to find the proper code for a particular brand of equipment listed, or none of the listed codes for that brand seem to work, please perform an auto code search of the entire code database for that mode.

In order to introduce the TV code, you must follow these steps:

1. To begin the procedure your TV must be switched on.
2. Press and hold the digits “1” and “3” simultaneously for a minimum of 3 seconds.
3. After 3 seconds the TV LED of the remote control of STB will turn on. Release the keys.
4. Now press the digits “0000” for auto search.
5. If correct, the TV LED will do a confirmation blink and remain on.

If the code is not valid, the remote control of STB will perform an error-blink and return to normal operation mode.

6. Then press and hold the Power or Mute key; after 2 seconds the remote control will start auto-search. You must keep holding the button until the TV reacts. The TV LED will blink during transmission of the code. This operation may take a while as the remote control is searching through hundreds of different TV brands.
7. If you press the Power key, when finding the right code, the TV will turn down to indicate that the correct code is found. If you press the Mute button, when coming across the right code, the TV will be muted to indicate that the correct code is found. After accessing the right code, release the Power or Mute button.

8. Press HOME and STOP key simultaneously to save your set up.

Notes:

1. In order to control the TV you have to press the «TV» button first and in order to control the Set-Top-Box you have to press the «STB» button first.
2. In case the remote control is already programmed with a TV code and you want to use it on another TV set, you can still program it with a new code following either the manual or the automatic procedure as described above.

4.3 Locking Volume Control buttons on Remote Control

The remote control accompanying the new Cytavision STB offers the option of locking the volume controls from controlling the sound on the decoder.

When TV is programmed, Key “VOL+”, “VOL-”, “MUTE” will always send TV code even in STB mode. If TV is not programmed, these keys will send STB code in STB and TV mode.

4.4 Resetting the Remote Control to default settings

To reset the TV mode and restore default setting of Remote Control please use below procedure:

1. Press digits “1” and “6” simultaneously for 3 seconds. During the initial 3 seconds, the LEDs will remain off. After 3 seconds, the TV LED will blink twice and remain on.
2. Press digit “9”, then digit “8” and then digit “1” in the sequence of 9->8->1.
3. If the sequence of key-presses is valid, the remote control will delete all the settings and return to the factory settings.

5 PROBLEM RESOLUTIONS

Before contacting CYTA, please read the following instructions. If the Set-Top Box does not work normally after completing the following troubleshooting please contact CYTA support services.

Problems	Possible cause	Solutions
Generic Error Message shown on TV screen	Software or Connectivity problems	Follow the instructions as displayed on the video screen
Poor picture & sound quality	Hardware or Software problems	Make sure that the SCART/HDMI™ Cable is firmly connected to the TV. Make sure to avoid putting a mobile phone or microwave oven near the equipment.
No image is displayed on TV screen	TV and STB are not connected properly or TV doesn't work correctly	Make sure that the SCART/HDMI™ Cable is firmly connected to the TV. Check that the TV is using the input associated to the STB. Reboot the DSL modem and then reboot the STB (Refer to section "How to reboot the STB")
No sound	The volume of the STB has been dramatically decreased from Echo Pro remote control Hardware or Software problems.	Check the volume level of the TV and STB. Check the Mute status of the TV service. Reboot the DSL modem and then reboot the STB (Refer to section "How to reboot the STB")
Remote control does not operate	Platform problems	To control the STB from the remote control remember to directly point towards the receiving part of STB's IR sensor. Check that the STB remote control is on STB mode. Check the battery of the remote control.

6 PRODUCT NOTES

This Set-Top Box incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

'Dolby' and the double-D symbol are trademarks of Dolby Laboratories. This receiver manufactured under license from Dolby Laboratories.

HDMI™, the HDMI™ logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI™ Licensing LCC.

"This product is embedded with technology owned by and under license from G-cluster Global Corporation."

Declaration of Conformity

We, ADB Broadband S.p.A., declare under our own responsibility that the **STB ADB 2841TW** conforms with the relevant standards according to the regulation in the EMC Directive 2004/108/EC and in the LVD Directive 2006/95/EC and amendments

Standards Applied:

EN60065

EN55013

EN55020

EN55022

EN55024

EN61000-3-2

EN61000-3-3

The product is labeled with CE Marking:



Any unauthorized modification of the product voids this declaration.

Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC

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This product complies with the WEEE Directive (2002/96/EC) marking requirement. The affixed product label (see above) indicates that you must not discard this electrical/electronic product in domestic household waste.

Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. For more information about where you can drop off your waste equipment for recycling, please contact your local council office. The unlawful disposal of the product by the user may entail a fine.

Product category: With reference to the equipment types in the WEEE directive Annex 1, this product is classified as an “IT and telecommunications equipment” product.

Do not dispose in domestic household waste.

Information for the Customers on batteries end of life

The crossed-out wheeled bin symbol on the battery, or on its packaging, indicates that, at the end of its life, it must not be disposed of as unsorted household waste.

Instead it must be removed from the appliance, separately collected and delivered, free of charge, to an appropriate waste batteries collection point provided by the Municipalities or by the retail trade centers.

The separate collection and appropriate treatment of the battery at the time of disposal helps to conserve natural resources and to ensure that it is recycled in a manner that protects human health and the environment from materials, components and substances that can be dangerous to the environment and harmful to human health. Furthermore, the separate collection and appropriate treatment of the battery, at the time of disposal, facilitates the battery materials possible reuse and / or recovery.

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SAFETY INFORMATION AND WARNING ON THE PRODUCT



BEFORE ANY OPERATION IS PERFORMED, PLEASE READ THE OPERATION INSTRUCTIONS AND PRECAUTIONS CAREFULLY IN ORDER TO MINIMIZE THE POSSIBILITY OF ACCIDENTS

When you use this product you must always respect basic safety measures in order to reduce risk of fire, electric shock or injury:

- Install and configure the product in accordance with the user guide.
- Do not use the product during a lightning storm. There is a remote risk of electric shock from lightning.

Environmental conditions

The product:

- Must be used and installed indoor with a maximum ambient temperature of 40° C and a minimum temperature of 0° C
- Must not be placed near any source of heat or direct sunlight.
- Must be placed in a well-ventilated area in order to prevent overheating. Do not cover or block the air vents on the product. These are necessary for proper ventilation
- Must not be in contact with water and moisture
- Must be installed in a place with a grade 2 of environmental pollution (a place without conducting polluting agents).

Unplug the product from the power outlet (or socket) and any other telecommuni-cation interfaces before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleansers.

Do not use this product near water or in close proximity to bath tub, wash bowl, kitchen sink, or laundry basin, in a wet basement, or near a swimming pool. In case of fire, do not use water for fire-extinguishing. Moving the product from a cold environment to a hot one may cause moisture on some internal parts of the device. Wait until the product is totally dry before turning it on.

Any unauthorized modification of the product voids this declaration.

Interface classification

Ethernet ports are connected only to devices that support the same kind of interface, and the cable used must not leave the building where the product is installed, otherwise there could be safety problems in case of overvoltages.



- Ethernet ports are connected only to devices that support the same kind of interface, and the cable used must not leave the building where the product is installed, otherwise there could be safety problems in case of overvoltages.

Accessibility

The plug-socket serves as the main disconnecting device. Be sure that the used power outlet is easily accessible and located as close to the user as possible.

Overloading

Do not overload an electrical outlet, power strip, or extension power cable to reduce the risk of fire or electric shock.

Antenna cable (DVB-T technology)

Please make sure that the antenna cabling and the ground clamping in your home are correctly implemented, before connecting the Set-Top Box to the antenna cable. In case of doubt contact companies specializing on the technical resolution of such problems.

Maintenance

To avoid electrical shock or exposition to overvoltage, do not open the case. There are no parts inside the Set-Top Box that can be substituted by the user. In the event that the product requires service, contact Cyta's call centre.

Damage requiring service/replacement

Unplug the product from the electrical outlet and contact CYTA. Typical conditions which may require replacement:

- Liquid has been spilled into the product
- The product does not operate normally when you follow the operating instructions
- The product has been dropped or damaged
- There are noticeable signs of overheating
- The power cord, extension cord, or plug is damaged

If you perceive a burning smell or smoke from the device, you should turn off the power to the equipment at the source. To avoid severe electrical shock, do not open the device in any case.

Final Remarks

This device must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product.

Pirelli Broadband Solutions S.p.A. is not responsible for any radio or television interference caused by unauthorized modification of this device, or the substitution or attachment of connecting cables and equipment other than specified by Pirelli Broadband Solutions S.p.A. The correction of interference caused by such unauthorized modification, substitution or attachment will be the responsibility of the user. Pirelli Broadband Solutions and its authorized resellers or distributors are not liable for any damage or violation of government regulations that may arise from the user failing to comply with these guidelines.

APPENDIX A: TV Brand code-set for Remote Control Programming

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Πίνακας κωδικών ανά μάρκα τηλεόρασης
για προγραμματισμό του τηλεχειριστηρίου.

Μάρκα TV TV Brands	Κωδικοί Codes	Μάρκα TV TV Brands	Κωδικοί Codes
A.R. Systems	0012	Andersson	0148
ABS	0016	Anglo	0151
Accent	0019	Anhua	0153
Acer	0028	Anitech	0154
Acoustic Solutions	0032	Ansonic	0156
Action	0033	AOC	0165
Acura	0036	Apex Digital	0170
Adcom	0041	Apple	0172
Addison	0043	Arc En Ciel	0178
ADL	0045	Arcam	0179
Admiral	0046	Ardem	0184
Advent	0054	Aristona	0192
Adventura	0055	ART	0199
Adyson	0058	Arthur Martin	0200
AEG	0059	ASA	0202
Agashi	0063	Asberg	0205
AGB	0064	Asora	0213
Aiko	0069	Astar	0218
Aim	0070	Astra	0221
Airis	0071	Astro	0224
Aiwa	0072	Asuka	0227
Akai	0074	ATD	0229
Akashi	0075	Atec	0230
Akiba	0078	Atlantic	0233
Akira	0079	Atori	0237
Akito	0082	Auchan	0240
Akura	0083	Audiosonic	0264
Alaron	0085	Audioton	0266
Alba	0086	Audiovox	0268
Albatron	0087	Audioworld	0269
Alfide	0096	Aumark	0271
Alienware	0099	Autovox	0280
All-Tel	0101	Aventura	0287
Allorgan	0105	Awa	0296
Allstar	0108	Axxent	0302
America Action	0123	Axxon	0303
Amitech	0130	Baier	0308
Amoi	0132	Baile	0310
Amplivision	0138	Baird	0311
Ampro	0139	Bang & Olufsen	0314
Amstrad	0140	Barco	0319
Anam	0146	Basic Line	0325
Anam National	0147	Bastide	0327

Μάρκα TV TV Brands	Κωδικοί Codes	Μάρκα TV TV Brands	Κωδικοί Codes
Bauer	0329	Caishi	0465
Baur	0331	Candle	0480
Baysonic	0333	Canton	0482
Bazin	0335	Capsonic	0486
BBK	0337	Carad	0488
Beaumark	0340	Carena	0489
Beijing	0345	Carnivale	0491
Beko	0346	Carrefour	0492
Belcor	0348	Carver	0494
Bell & Howell	0350	Cascade	0496
Belson	0355	Casio	0499
Belstar	0357	Cat	0500
BenQ	0359	Cathay	0501
Beon	0361	CCE	0504
Berthen	0363	Celebrity	0509
Best	0364	Celera	0510
Bestar	0368	Celestial	0511
Bestar-Daewoo	0369	cello	0514
Binatone	0378	Centrex	0516
Black Diamond	0384	Centrum	0519
Blackway	0388	Centurion	0520
Blaupunkt	0390	CGE	0523
Blue Sky	0395	Changcheng	0526
Boca	0399	Changfeng	0528
Boman	0402	Changhong	0530
Boots	0405	Chun Yun	0545
Bosch	0406	Chung Hsin	0547
BPL	0413	Cimline	0552
Bradford	0414	Cinema	0555
Brandt	0416	Cineral	0559
Brandt Electronique	0417	Cinex	0563
Brinkmann	0423	Citizen	0567
Brionvega	0424	City	0569
Britannia	0425	Clarion	0575
Brockwood	0430	Clarivox	0576
Broksonic	0432	Classic	0580
Brother	0433	Clatronic	0581
Bruns	0435	Clayton	0582
BSR	0437	CME	0589
BTC	0439	CMS Hightec	0591
Bush	0445	Coby	0597
Byd'sign	0448	Commercial Solutions	0615
C-Tech	0449	Concerto	0625
Cailing	0463	Concorde	0626

Μάρκα TV TV Brands	Κωδικοί Codes	Μάρκα TV TV Brands	Κωδικοί Codes
Condor	0627	DiBoss	0749
Conia	0628	Dick Smith Electronics	0750
Conrac	0632	Digatron	0751
Conrad	0633	Digihome	0758
Conrowa	0634	Digiline	0759
Contec	0635	DigiLogic	0760
Continental Edison	0637	Digital Device	0770
Cosmel	0647	Digital Life	0772
Craig	0650	Digitek	0779
Crosley	0655	Digitex	0780
Crown	0658	Digitor	0781
Crown Mustang	0659	Digitrex	0782
CS Electronics	0663	Digix Media	0785
CTX	0665	DiK	0787
Curtis	0666	DirecTV	0794
Curtis Mathes	0667	Dixi	0807
CXC	0670	DL	0810
CyberPower	0674	DMTech	0813
Cybertron	0675	Domeos	0817
Cytron	0680	Doric	0822
Cytronix	0681	Dream Vision	0829
D-Vision	0684	Drean	0832
Daewoo	0692	DSE	0833
Dainichi	0694	DTS	0837
Dansai	0699	Dual	0838
Dansette	0701	Dual Tec	0839
Dantax	0702	Dumont	0840
Datsura	0703	Durabrand	0842
Dawa	0707	Dux	0843
Daytek	0708	DVX	0847
Dayton	0709	Dwin	0848
Daytron	0710	DX Antenna	0849
Dayu	0711	Dynatech	0854
De Graaf	0716	Dynatron	0855
DEC	0717	E:max	0856
Decca	0718	Easy Living	0860
Dell	0725	Ecco	0864
Denko	0730	ECE	0865
Denon	0731	Edison-Minerva	0871
Denver	0733	Eiki	0874
Desmet	0738	Elbe	0880
Diamant	0746	Elcit	0883
Diamond	0747	Electroband	0888
Diamond Vision	0748	Electrograph	0889

Μάρκα TV TV Brands	Κωδικοί Codes	Μάρκα TV TV Brands	Κωδικοί Codes
Electrohome	0890	Frontech	1042
Elekta	0895	Fujimaro	1050
Elektra	0896	Fujitsu	1052
Elfunk	0899	Fujitsu General	1053
ELG	0900	Fujitsu Siemens	1054
Elin	0902	Funai	1056
Elite	0903	Furi	1057
Elta	0910	Furichi	1058
Emerson	0917	Futronic	1061
Emprex	0922	Futuretech	1064
Envision	0933	Galaxi	1068
Enzer	0934	Galaxis	1069
Epson	0937	Gateway	1076
Erres	0942	GBC	1078
ESA	0943	GE	1081
ESC	0945	Geant Casino	1082
Etron	0949	GEC	1083
Eurofeel	0954	Geloso	1087
EuroLine	0955	General	1090
Euroman	0956	General Electric	1091
Europa	0957	General Technic	1095
Europhon	0959	Genesis	1096
Evesham	0972	Genexxa	1097
Evolution	0973	Gericom	1103
Excello	0975	Giant	1113
Expert	0976	Gibraltar	1114
Exquisit	0978	Go Video	1126
Fenner	0994	Gold Vision	1132
Ferguson	0996	Goldfunk	1135
Fidelity	0998	GoldStar	1140
Filsai	1000	Gooding	1141
Finlandia	1003	Goodmans	1142
Finlux	1004	Gorenje	1144
Fintec	1006	GP	1147
Firstline	1008	GPM	1149
Fisher	1009	GPX	1150
Flint	1014	Gradiente	1151
Force	1021	Graetz	1152
Formenti	1023	Gran Prix	1153
Formenti-Phoenix	1024	Granada	1154
Fortress	1027	Grandin	1156
Fraba	1030	Gronic	1160
Friac	1040	Grundig	1162
Frigidaire	1041	Grunkel	1164

Μάρκα TV TV Brands	Κωδικοί Codes	Μάρκα TV TV Brands	Κωδικοί Codes
Grunpy	1165	Huafa	1287
Haaz	1172	Huanyu	1292
Haier	1175	Huari	1294
Halifax	1179	Hugoson	1297
Hallmark	1180	Humax	1298
Hampton	1183	Huodateji	1302
Hanimex	1187	Hush	1304
Hankook	1188	Hygashi	1308
Hannspree	1189	Hyper	1309
Hanseatic	1190	Hypersonic	1310
Hantarex	1192	Hypson	1312
Hantor	1193	Hyundai	1315
Harley Davidson	1197	Iberia	1320
Harman/Kardon	1198	iBUYPOWER	1322
Harsper	1200	ICE	1324
Harvard	1202	ICeS	1325
Harwa	1203	ICT	1328
Harwood	1204	IIsonic	1334
Hauppauge	1206	Iiyama	1335
Havermy	1208	iLo	1341
HB	1209	Imperial	1346
HCM	1210	Imperial Crown	1347
Helios	1219	Indiana	1350
Hello Kitty	1221	Infinity	1352
Hema	1222	InFocus	1353
Hemmermann	1223	Ingelen	1354
Hewlett Packard	1229	Ingersol	1355
Hifivox	1233	Initial	1356
Highline	1236	Inno Hit	1358
Hikona	1237	Innova	1359
Hinari	1243	Innovation	1360
Hisawa	1247	Innowert	1362
Hisense	1249	Inotech	1364
Hitachi	1251	Insignia	1368
Hitachi Fujian	1252	Inteq	1373
Hitec	1253	Interbuy	1376
Hitsu	1257	Interfunk	1377
Hoeher	1262	Internal	1379
Home Electronics	1265	Intervision	1386
Hongmei	1272	Irradio	1396
Hornyphon	1277	IRT	1397
Hoshai	1278	Isukai	1402
Howard Computers	1281	ITC	1404
HP	1283	ITS	1405

Μάρκα TV TV Brands	Κωδικοί Codes	Μάρκα TV TV Brands	Κωδικοί Codes
ITT	1406	Kolin	1541
ITT Nokia	1407	Kolster	1543
ITV	1408	Konichi	1546
Janeil	1414	Konig	1547
JBL	1420	Konka	1548
JCB	1421	Kontakt	1549
JDV	1423	Korpel	1552
Jean	1424	Korting	1554
JEC	1426	Kosmos	1557
Jensen	1429	Kotron	1560
JGC	1434	Koyoda	1561
Jiahua	1435	Kreisen	1568
Jinfeng	1438	KTV	1572
Jinxing	1442	Kuba	1575
JMB	1445	Kuba Electronic	1576
JNC	1446	Kunlun	1578
Jocel	1448	Kyoshu	1583
Jubilee	1460	Kyoto	1585
JVC	1464	L&S Electronic	1588
Kaisui	1471	LaSAT	1597
Kanghua	1477	Lavis	1602
Kangli	1478	Leader	1604
Kapsch	1483	Lecson	1606
Karcher	1484	Legend	1609
Kathrein	1486	Lemair	1613
Kawa	1487	Lenco	1615
KB Aristocrat	1492	Lenoir	1617
KDS	1494	Lexsor	1626
KEC	1496	Leyco	1627
Ken Brown	1499	LG	1628
Kendo	1500	Liesenkotter	1631
Kennedy	1504	Lifetec	1633
Kennex	1505	Linksys	1640
Kenwood	1507	Lloyd's	1648
Khind	1511	Local India TV	1653
KIC	1512	Local Malaysia TV	1656
Kiota	1522	Lodos	1659
Kioto	1523	Loewe	1660
Kiton	1525	Logik	1661
KLH	1529	Logix	1663
KLL	1531	Luker	1673
Kloss	1532	Luma	1674
Kneissel	1535	Lumatron	1676
Kobra	1537	Lux May	1680

Μάρκα TV
TV Brands**Κωδικοί**
Codes**Μάρκα TV**
TV Brands**Κωδικοί**
Codes

Luxman	1682
Luxor	1683
LXI	1686
M & S	1687
M Electronic	1688
Madison	1698
MAG	1701
Magnadyne	1702
Magnafon	1703
Magnasonic	1704
Magnavox	1706
Magnin	1708
Magnum	1709
Mandor	1717
Manesth	1718
Manhattan	1719
Manta	1720
Maqma	1722
Marantz	1724
Mark	1731
Marquant	1734
Mascom	1738
Master's	1742
Mastro	1743
Masuda	1744
Matsui	1750
Matsushita	1751
Maxdorf	1756
Maxent	1757
Maxim	1759
MCE	1766
Meck	1775
Media Center PC	1777
Mediator	1784
Medion	1787
Megapower	1791
Megas	1792
Megatron	1795
MEI	1796
Memorex	1800
Memphis	1802
Mercury	1804
Mermaid	1806
Metronic	1809

Metz	1810
MGA	1811
Micromaxx	1822
Microsoft	1826
Microstar	1827
MicroTEK	1829
Midland	1831
Mikomi	1833
Minato	1835
Mind	1837
Minerva	1838
Minoka	1840
Mintek	1845
Minutz	1847
Mirai	1849
Mirror	1851
Mitsubishi	1855
Mivar	1857
Mogen	1865
Monaco	1868
Monivision	1872
Morgan's	1875
Motorola	1878
mp man	1884
MTC	1889
MTlogic	1892
Mudan	1896
Multitec	1906
Multitech	1907
Murphy	1911
Musikland	1915
Mx Onda	1919
Myryad	1922
NAD	1926
Naiko	1930
Nakimura	1933
Naonis	1936
Narita	1939
NAT	1941
National	1942
NEC	1950
Neckermann	1951
NEI	1952
Neon	1955

Μάρκα TV TV Brands	Κωδικοί Codes	Μάρκα TV TV Brands	Κωδικοί Codes
Neovia	1958	Orion	2111
Netsat	1966	Online	2113
NetTV	1967	Ormond	2114
Neufunk	1970	Orsowe	2116
New Tech	1979	Osaki	2118
New World	1980	Osio	2121
Newave	1981	Oso	2122
Nicam	1993	Osume	2123
Nikkai	1998	Otic	2125
Nikkei	1999	Otto Versand	2126
Nikko	2000	Pacific	2135
Nintaus	2006	Packard Bell	2138
Niveus Media	2012	Palladium	2145
Noblex	2013	Palsonic	2147
Nogamatic	2016	Panama	2149
Nokia	2017	Panasonic	2153
Norcent	2020	Panavision	2154
Nordic	2021	Panda	2155
Nordmende	2022	Pathe Cinema	2168
Normerel	2024	Pathe Marconi	2169
Northgate	2027	Pausa	2171
Norwood Micro	2029	Peng Sheng	2181
Novak	2033	Penney	2182
Novatronic	2035	Perdio	2185
Novita	2037	Perfekt	2186
NTC	2045	Petters	2189
Nu-Tec	2048	Philco	2192
NuVision	2053	Philex	2193
Oceanic	2061	Philharmonic	2194
Odeon	2064	Philips	2195
Okano	2065	Phocus	2198
Olevia	2067	Phoenix	2199
Olidata	2068	Phonola	2201
Omega	2072	Pilot	2207
Omni	2074	Pioneer	2212
Onida	2081	Pionier	2213
Onimax	2082	Plantron	2219
Onwa	2087	Playsonic	2224
Opera	2090	Polaroid	2230
Oppo	2092	Policom	2231
Optimus	2095	Poppy	2236
Optoma	2097	Portland	2238
Optonica	2099	Powerpoint	2241
Orbit	2103	Prandoni-Prince	2242

Μάρκα TV TV Brands	Κωδικοί Codes	Μάρκα TV TV Brands	Κωδικοί Codes
Precision	2244	Redstar	2366
Premier	2248	Reflex	2368
President	2250	Relisys	2374
Prima	2253	Remotec	2377
Princeton	2258	Reoc	2379
Pringston	2259	Revox	2383
Prinz	2260	Rex	2385
Prism	2261	RFT	2386
Profex	2269	Ricavision	2388
Profi	2270	Ricoh	2390
Profilo	2272	Rinex	2392
Profitronic	2273	Roadstar	2398
Proline	2274	Rolson	2410
Proscan	2279	Rover	2415
Proscos	2280	Rowa	2416
Prosonic	2282	Royal Lux	2420
Protech	2284	Runco	2423
Proton	2288	Saba	2429
Protron	2289	Sagem	2434
Proview	2290	Saisho	2437
ProVision	2291	Saivod	2439
Proxima	2292	Sakai	2440
Pulsar	2296	Sakura	2441
Pvision	2300	Salora	2443
Pye	2302	Sambers	2445
Pymi	2304	Sampo	2446
Qingdao	2308	Samsung	2448
Quadral	2314	Sandra	2454
Quasar	2320	Sansei	2457
Quelle	2322	Sansui	2458
R-Line	2327	Santon	2459
Radialva	2329	Sanyo	2462
Radiola	2330	Sanyuan	2464
Radiomarelli	2331	SBR	2492
Radionette	2332	ScanSonic	2497
RadioShack	2333	Sceptre	2498
Radiotone	2334	Schaub Lorenz	2500
Rank Arena	2346	Schneider	2501
RCA	2351	Scimitsu	2505
Realistic	2354	Scotch	2506
Recco	2358	Scotland	2507
Recor	2359	Scott	2508
Rectiligne	2362	Sears	2514
Rediffusion	2364	Seaway	2515

Μάρκα TV TV Brands	Κωδικοί Codes	Μάρκα TV TV Brands	Κωδικοί Codes
Seelver	2520	Soemtron	2647
SEG	2522	Sogera	2649
SEI	2524	Sogo	2650
Sei-Sinudyne	2525	Solavox	2654
Seleco	2528	Sole	2655
Semivox	2529	Sonawa	2663
Semp	2530	Soniko	2669
Sencora	2531	Sonitron	2671
Sentra	2534	Sonix	2672
Serie Dorada	2538	Sonneclair	2673
Serino	2539	Sonoko	2675
Shanghai	2547	Sonolor	2676
Shaofeng	2549	Sontec	2677
Sharp	2550	Sony	2679
Shen Ying	2552	Sound & Vision	2680
Shencai	2553	Soundesign	2684
Shenyang	2555	Soundwave	2689
Sherwood	2557	Sova	2690
Shintoshi	2564	Sowa	2691
Shivaki	2567	Soyea	2692
Shogun	2568	Soyo	2693
Shorai	2569	Spectra	2697
Show	2570	Spectroniq	2701
Siam	2572	Squareview	2703
Siarem	2573	Ssangyong	2706
Siemens	2574	SSS	2708
Siera	2576	Stack 9	2710
Siesta	2577	Staksonic	2712
Silva	2591	Standard	2713
Silva Schneider	2592	Starion	2725
Silvano	2593	Starlite	2728
Silver	2594	Stenway	2739
SilverCrest	2595	Stern	2741
Simpson	2598	Stevison	2742
Singer	2599	Strato	2745
Sinotec	2600	Strong	2748
Sinudyne	2601	Studio Experience	2750
SKY	2610	Stylandia	2752
Sky Brazil	2611	SunBrite	2759
Skysonic	2627	Sunkai	2762
Skyworth	2631	Sunny	2764
Sliding	2635	Sunstar	2768
SLX	2638	Sunstech	2769
Smaragd	2641	Sunwood	2772

**Μάρκα TV
TV Brands****Κωδικοί
Codes**

Superla	2782
Superscan	2786
Supersonic	2787
SuperTech	2789
Supra	2792
Supre-Macy	2794
Supreme	2795
Susumu	2797
Sutron	2798
SVA	2800
Svasa	2801
Swedx	2803
Swisstec	2806
Sydney	2808
Sylvania	2809
Symphonic	2810
Synco	2811
Syntax	2814
Sysline	2815
Systemax	2817
Tacico	2823
Tagar Systems	2831
Talent	2838
Tandberg	2842
Tandy	2843
Targa	2847
Tashiko	2850
Tatung	2852
TCL	2856
TCM	2857
Teac	2860
Tec	2861
Tech Line	2863
Techica	2865
Technema	2866
Technica	2868
Technics	2869
Technika	2870
TechniSat	2873
Technisson	2874
Technol Ace	2875
Technosonic	2878
Technotrend	2879
Techview	2883

**Μάρκα TV
TV Brands****Κωδικοί
Codes**

Techwood	2884
Tecnimagen	2885
Teco	2886
Tedalex	2889
Teiron	2891
Tek	2892
Teknika	2895
Teleavia	2901
Telecor	2910
Telefunken	2914
Telefusion	2915
Telegazi	2917
Telemagic	2920
Telemeister	2924
Telesonic	2930
Telestarr	2931
Teletech	2934
Teleton	2935
Televideon	2938
Televievr	2939
Temco	2946
Tempest	2948
Tennessee	2952
Tensai	2954
Tenson	2955
Tevion	2962
Texet	2963
Thomas	2971
Thomson	2972
Thorn	2974
Thorn-Ferguson	2976
Tiane	2980
Time	2982
Tiny	2986
TMK	2994
TML	2995
TNCi	2996
Tobishi	2998
Tobo	2999
Tokai	3001
Tokaido	3002
Tokyo	3004
Tomashi	3006
Topline	3016

Μάρκα TV TV Brands	Κωδικοί Codes	Μάρκα TV TV Brands	Κωδικοί Codes
Toshiba	3021	Vision	3198
Tosumi	3023	Vistar	3207
Touch	3025	Vivid	3210
Towada	3028	Vizio	3211
Toyoda	3030	Voodoo	3215
Trakton	3036	Vortec	3217
TRANS-continent	3039	Voxson	3220
Transonic	3041	Vue	3225
Triad	3049	Waltham	3230
Trident	3054	Wards	3231
Trio	3056	Warumaia	3232
Tristar	3057	Watson	3233
Triumph	3058	Watt Radio	3234
TVS	3081	Waycon	3237
TVTEXT 95	3082	Wega	3238
Uher	3089	Wegavox	3239
Ultravox	3095	Welltech	3244
UMC	3099	Weltblick	3245
Unic Line	3100	Weltstar	3247
United	3106	Westinghouse	3249
Universal	3113	Weston	3251
Universum	3115	Wharfedale	3255
Univox	3116	White Westinghouse	3258
US Logic	3124	Wilson	3260
V2max	3129	Windsor	3265
V7 Videoseven	3130	Windy Sam	3267
Vector Research	3137	Wintel	3271
Venturer	3143	World-of-Vision	3282
Vestel	3148	Woxter	3286
Vexa	3149	Wyse	3288
Victor	3155	Xenius	3297
Videocon	3163	Xiahua	3299
Videologic	3165	XLogic	3310
Videologique	3166	Xoro	3315
Videomac	3167	Xrypton	3317
VideoSystem	3172	Yakumo	3324
Videotechnic	3173	Yamaha	3326
Videoton	3174	Yamishi	3328
Vidikron	3178	Yapshe	3329
Vidtech	3179	Yokan	3335
Viewpia	3184	Yoko	3336
Viewsonic	3186	Yorx	3340
Viking	3188	Ytaiwai	3344
Viore	3192	Zanussi	3349

Μάρκα TV
TV Brands**Κωδικοί**
Codes**Μάρκα TV**
TV Brands**Κωδικοί**
Codes

Zenith	3356
Zonda	3369
ZT Group	3370
Arena	3375
Blue Media	3378
Evesham Technology	3396
G-Hanz	3397
Lentec	3405
Seitech	3433
VANGUARD	3450
I-Inc	3462
TruTech	3467
Aftron	3470
Dynex	3476
Element	3477
Hanns.G	3478
e-motion	3496
Keymat	3499
Northern Star	3501
RevolutionHD	3503
Schoentech	3504
Simz	3505
BGH	3507
GVA	3510
PrimeView	3513
Princess	3514
Digix	3520
Alkos	3523
Elbe-Sharp	3529
Interactive	3534
TELE System	3551
Aomni	3555
Bensten	3559
Bestwell	3560
DGM	3566
Digital Lifestyles	3567
diVision	3570
HYD	3579
Marks and Spencer	3585
Relon	3594
Vivax	3601
YU-MA-TU	3603
AlfaView	3607
B&D	3609

Bennett	3612
Black Stripe	3613
Bork	3615
D.Boss	3619
Digivision	3621
Dunai	3622
Estele	3627
Excel	3628
Future	3632
Galeria	3633
H&B	3635
Hedzon	3637
iDEAL	3641
JTV	3645
Levis Austria	3648
Medialine	3653
Melectronic	3654
Merritt	3655
Mitsuri General	3658
MyCom	3659
Norfolk	3661
Nurnberg	3662
Onn	3663
Papouw	3664
Rukopir	3672
Save	3673
Sunic Line	3677
Tesla	3680
Utax	3684
Art Mito	3737
Kenstar	3756
Sungoo	3767
Thes	3769
Vistron	3773
Brimax	3797
DigiMax	3808
Encross	3815
GFM	3820
Gold	3823
Heran	3828
iPure	3835
Microspot	3849
Mitsai	3851
Nesx	3855

Μάρκα TV TV Brands	Κωδικοί Codes	Μάρκα TV TV Brands	Κωδικοί Codes
Nortek	3862	Venus	4308
Onyx	3864	Walker	4311
Plustron	3872	Moree	4565
Teckton	3890	Nikai	4566
TVE	3897	Novex	4567
TWF	3898	TAURAS	4627
Xomax	3905	Alien	4765
Camper	3911	Agfaphoto	4766
Kingsbrook	3917	Azuki	4767
Sheng Chai	3922	Cyberpix	4768
Myrica	3946		
NEO	3947		
Nexus Electronics	3948	Dyon	4769
PARK	3951	Visual Innovations	4773
Ziggo	4007	XDome	4775
Cameron	4032	Y'smart	4777
Avol	4055	Electrion	4787
Erisson	4057	Ikasu	4788
Gaba	4059	Arcelik	4791
Horizont	4060	CPRTec	4794
Keydo	4062	Bristol	4895
Level	4064		
Nimbro	4065		
Odys	4066		
OKI	4067		
Panache	4069		
Quadro	4071		
Shinelco	4074		
Techno	4076		
VU	4078		
Zepto	4081		
Datron	4201		
Ministry Of Sound	4247		
Continental	4291		
Digisonic	4292		
Gibson	4294		
Herosonic	4295		
Inspira	4296		
MegaDrive	4297		
Newsonic	4299		
O.K.Line	4301		
Onei	4302		
Polyvision	4304		
Techvision	4307		



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